

WHAT IS CLAIMED IS:

1. A radiation detection device comprising:
a light-receiving device array in which a plurality
of light-receiving devices are one- or two-dimensionally
5 arranged on a substrate;
a scintillator layer deposited on said light-receiving
devices and provided with columnar crystals; and
an organic film formed over the top and side surfaces
of said scintillator layer and said substrate surface around
10 said scintillator layer and intruding into gaps among the
top part of said columnar crystals to cover said scintillator
layer.
2. A radiation detection device according to claim
1, wherein said organic film is fixed to said substrate around
15 said scintillator layer.